Analysis of the Functions of KIT IPA to Support the Independent Curriculum in SDN 1 Cicadas, Bogor Regency

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Abstract: Props have an important role in achieving a learning goal. Inside props science learning can be in the form of an Integrated Instrument Component (KIT). The challenge of the independent curriculum is that learning facilities are still lacking, and learning resources are incomplete, while the goal in implementing the Independent Curriculum is to train students' soft skills through various school and learning activities. SDN 1 Cicadas already has several Science KITs, but it turns out that the teachers are not optimally using teaching aids when learning Science. This study aims to find out how the Science KIT functions in supporting the Merdeka Curriculum. Data collected using a qualitative approach to the case study method with observation techniques, interviews and documentation studies. The final results of this study indicate that the Science KIT functions in helping teachers prepare lessons for Teaching and Learning Activities (KBM) and making it easier for students to understand learning, improving the quality of science teaching and learning in elementary schools especially during this independent curriculum, developing human resource development programs, creating a fun, active, creative and effective science learning atmosphere. From the results of this study it can be concluded that the science kit at SDN 1 Cicadas comes from BOS funds with fairly complete availability. The function of the Science Kit is to improve the quality of teaching and learning, and to assist teachers in teaching and learning. While the advantages of the Science Kit are training accuracy and dexterity, helping and facilitating teachers, the weakness is that the Science KIT is easily damaged if it is never used.
INTRODUCTION
Natural Sciences (IPA) is a science that teaches students an understanding of natural phenomena Around (Rusmiaty et al., 2020), the diversity of the universe, and teaches humans how to adapt humans with the environment (Yuliani et al., 2022).

Science learning in class is directly related to the school curriculum, but science learning currently has to follow a new curriculum, namely the independent curriculum which is a transitional curriculum from the 2013 curriculum. The Independent Curriculum initiated by the Minister of Education and Culture Nadiem Anwar Makarim formulated several new policies. Conceptually, this independent curriculum provides freedom for institutions and students in carrying out the learning process (Marlina, 2022). The Ministry of Education and Culture provides Teacher’s Books, teaching modules, various formative assessments, and examples of curriculum development for educational units to assist and students in implementing learning (Barlian et al., 2022).

Monotonous learning will become an obstacle for students in expressing their abilities, educators must help facilitate students learning by providing methods and learning (Hayu et al., 2020; Helmanto & Adi, 2023). So we need Science Teaching Aid as an important role in achieving a science learning goal. Teaching aids in science learning can be in the form of Integrated Instrument Components (KIT) which have been distributed by the government to every school which is useful for facilitating teachers in delivering learning material.

KIT is a visual aid that is used to prove existing theories so as to encourage children to be able to develop their potential (Angreni & Sari, 2017).

The use of the Science Kit can also be used by teachers to assist the learning process. However, many teachers lack the knowledge of using the Science KIT teaching aids so that this tool is not used optimally by the teacher. SDN 1 Cicadas already has a fairly complete Science KIT, but it turns out that teachers when teaching science lessons are not optimal in using and utilizing these teaching aids. Usually what is done when in learning is that the teacher uses the
lecture method and only explains the material in class. Even though when viewed from the learning material, science really needs visual aids to help teachers explain the subject matter. The lack of supplies and utilization of Science Kits in Science Learning also makes Science Kits rarely used as teaching aids in learning Science in elementary schools. With the analysis of the functions of the IPA KIT, it is expected that teachers can optimize the use of the IPA KIT. Basically this Science Kit serves to assist teachers in improving the quality of learning which in turn can improve student performance. So on this occasion the researcher will: research on "KIT Function Analysis Science to Support the Independent Curriculum at SDN 1 Cicadas, Bogor Regency."

**METHOD**

This research uses a qualitative approach with a case study method. Case study is research in which the researcher explores a particular phenomenon (case) at a time and activity (program, event, process, institution or social group) and collects detailed and in-depth information using various data collection procedures over a period of time (Wahyuningsih, 2013). The research used is an interactive analysis model as disclosed by Miles and Huberman.

This model consists of four stages, the stages of the Miles and Huberman model are: Data Collection, Data Reduction, Data Presentation, Drawing Conclusions. Data collection techniques used are interviews, observation and documentation studies.

**RESULT & DISCUSSION**

In carrying out the research at SDN 1 Cicadas, the first step was to make observations to find out the various science kits available at SDN 1 Cicadas. Then the researcher also conducted interviews with 4 sources, namely the homeroom teacher of classes IV A, IV B, IV C and IV D to obtain information that would answer the research sub-focus of the researcher.

**Results**

The results of this study were to find out how the availability, functions of the IPA KIT and the advantages and disadvantages of the IPA KIT.

1. Identify IPA KIT

The science kit at SDN 1 Cicadas comes from government assistance through the BOS Fund, the government provides science kit
assistance to SDN 1 Cicadas in the form of a balance kit, a magnet kit, simple plane kit, a heat kit, an electricity kit, a sound kit, an optical kit, a water kit, a water kit light, mineral rock KIT, Apron & card, as well as coal and petroleum KIT.

2. IPA KIT function

Based on the results of the interviews that the researchers conducted with informants A, B, C and D, it was found that the functions of the IPA KIT include:

a. The resource person explained that the Science KIT can indeed help teachers prepare lessons for KBM and make it easier for students to understand learning.
b. IPA KIT works to improve the quality of science teaching and learning in elementary schools.
c. KIT IPA supports interactive learning

d. The IPA KIT functions in developing human resource development programs.
e. IPA KIT is very helpful teacher in explaining the material IPAS.
f. The Science Kit can make it easier to improve the quality of the teaching and learning process in the classroom.

3. The advantages and disadvantages of the KIT IPA

a. The advantage of KIT IPA is that through media-based learning KIT is expected to be an alternative solution to help improve student learning outcomes. Another benefit, especially for students, is that students can find learning interesting and fun by using KIT IPA media. In addition, it is also to train the accuracy and dexterity and memory of students in Natural Sciences lessons. By using the available IPA KIT, students can deal with equipment directly and conduct experiments.
b. The IPA KIT at SDN 1 Cicadas, namely the IPA KIT, is not used optimally and is not cared for as well as possible.

Discussion

The discussion regarding this research is:

1. Identify IPA KIT
As for the type of Component The IPA Integrated Instruments (KIT) are as follows: balance sheet KIT; water KIT; mineral kits; magnets KIT; light KIT; simple plane KIT; optical KIT; electric KIT; coal and oil KIT; hot KIT; sound kits; chart (poster/wall picture); sun, earth, and moon aprons; human skeletal torso (Asiah, 2013). The science kit available at SDN 1 Cicadas is assistance from the government through the School Operational Assistance Fund (BOS), then the types of science kit available at SDN 1 Cicadas are fairly complete and still in good condition. However, in each IPA KIT box there is no guidebook and posters are also not available. Then there is the light KIT but the light KIT box cannot be opened.

2. IPA KIT function

The Science Integrated Instrument Component (KIT) has several functions, including:

a. To improve the quality of science teaching and learning in elementary schools;

b. For an emphasis on interactive learning methods;

c. To develop human resource development programs;

d. To create a higher quality workforce;

e. To help science teachers facilitate teaching preparation and improve the quality of the teaching and learning process in the classroom (Sukarjita, 2020).

Based on the results of the data obtained during the homeroom interview process for class IV A, B, C and D as well as with the study of documents that the researchers conducted, it can be concluded that:

a. KIT IPA can help teachers prepare lessons for KBM and make it easier for students to understand learning.

b. KIT IPA as a learning medium for Natural Sciences is a function of improving the quality of the teaching and learning process, because in general students' understanding of learning using media will last a long time so that the quality of learning has a high value (Purnomo, 2019).

c. The Science KIT functions to improve the quality of Science teaching and learning in elementary schools because with the Science
KIT teaching aids in the independent curriculum children can practice it directly and the Science KIT allows children to quickly understand learning so that it will have an impact on improving the quality of teaching and learning. The use of visual aids in teaching is prioritized to enhance the quality of teaching and learning (Suparman, Haling, A., & Faisal, 2017). Through the concept of independent learning, it is hoped that the quality of learning in schools can be of high quality and be able to produce generations that can compete globally (Rahmansyah, 2021).

The IPA KIT supports interactive learning because with the IPA KIT it can involve interactions between students and teachers and the use of the IPA KIT will involve students directly, so students will be more active and active.

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